

Missouri Department of Conservation P.O. Box 180 Jefferson City, MO 65102-0180

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Conservation TEACLER



Walnuts: Red-bellied woodpeckers and

squirrels eat the nuts, while beavers eat

the bark. The sweet, oily kernels are

eaten by humans, too. Walnuts add flavor to

cakes, candies and salads with their strong

and distinctive taste.

A New School Year is off and rolling! The Department of Conservation is again pleased to come into your classroom with the Conservation Kids' Connection. Student newspapers for kindergarten, first and second grades are designed with a seasonal format and meet the Show-Me Standards. Look for newspapers in October (Fall), December (Winter), February (Spring) and April (Summer).

Conservation Teacher provides additional information to facilitate class discussion, extra activities, related children's literature and Department of Conservation resources. We're glad you're bringing conservation to your classroom.

LEAF CREATURES

Ask the students to bring in leaves, bark and sticks. Press the leaves for a few days. Have them use the items they brought to design a creature, real or imaginary.

I'm a Little Fox Squirrel

Teach students the following song to the tune of "I'm a Little Teapot."

I'm a little fox squirrel, red and brown.

(Put hands behind back like a squirrel tail)

I eat nuts that I have found.

(Pretend to eat nut)

I pick them up and bury them deep.

(Pretend to pick up nuts and bury them)

When winter comes I'll have nuts to eat.

(Rub tummy)

APPLICATION

Bonus activities for school or home

Have students look at leaves on their ride home from school. How many different kinds did they see?

Tell students to take a nature walk. Using a strip of masking tape, they can make a bracelet with sticky-side out. Tell them to watch along the trail for leaves to collect and attach to their bracelet.

Woolyworz

kindergarten newspaper

Go Nuts!

Squirrels are busy in the fall gathering nuts to help them survive the winter. They bury nuts in the ground. To locate them later, squirrels use their sense of smell. The nuts they don't find sprout and become trees.

abundant nut and probably one of wildlife's most important foods. The native Americans roasted acorns from the white oak, hulled them and ground them into a coarse meal for baking bread.

Hickory nuts: Wood ducks, ring-necked pheasants, quail and wild turkeys compete with man for these nutritious nuts. Black bears, squirrels and rabbits eat both nuts and bark, while white-tailed deer enjoy the nuts and young twigs from the tree.

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TADQOLE

BATS

Bats are nocturnal mammals that hibernate in winter because their food source of insects is gone. Some bats migrate. Other bats hibernate. They hibernate in caves, barns, large hollow trees, attics and abandoned buildings.

Gray bats live in caves throughout the year. Indiana bats spend the winter in caves and the summer roosting under tree bark where they raise their young (called a nursery).

Disturbance by people in summer can disrupt nurseries and the baby bats may fall and die. While in winter, interruptions may awaken sleeping bats and make them too weak to survive until spring.

Definitions for discussion

Echolocation: The determination, as of a bat, of the position of an object by the emission of sound waves which are reflected back to the sender as echoes.

Hibernation: A state of winter dormancy among certain organisms, especially animals, associated with reduced respiration and other physiological functions.

Nocturnal: Active or functioning at night; such

as animals that are active at night or plants that blossom at night.

Predator: An

by capturing

and devouring

other animals.

animal that lives

LOOKING

ÅHEÅD

Winter issues will feature the following topics:

WOOLYWORM (K) focuses on otters and animals preparing for winter.

TADPOLE (1) covers bird silhouettes, feathers and feeders.

> CRAWDAD (2) is on eagles and rivers.

CAVE SEARCH

Raccoons, crickets, bats. salamanders and fish make caves their homes. Have students count, tally and color as you discuss these animals with them.

Cave animals can be classified by their level of adaptation to caves. A few are true cave dwellers (TROGLOBITES) that live only

in caves. Some are considered "cave lovers" (TROGLOPHILES) because they can (and often do) complete their life cycle in a cave; however, they may also live in suitable habitats outside of caves. Others are cave visitors (TROGLOXENES) which enter caves but must return periodically to the surface for some living requirements, often food.

Explain to students that although caves were often used in the past, today we discourage their use. Many people study caves, but it is considered best to leave wild caves alone so their development is not disrupted. To see cave formations you can visit one of Missouri's many commercial caves.

The cave salamander looks like a Halloween leftover with its orange skin and black spots. The larva can often be found around cave springs and entrances. The larva is called a cave lover. The adult is a cave lover, too, and is usually found in the cave entrance or far back in a cave.

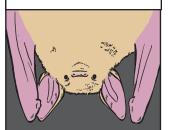
APPLICATION

Bonus activities for school or home

Tell students to go outside at night and watch for bats. Where do they think they will find bats? What are bats doing at night?

Have students make a cave mural. What animals will they put in it? Where in the cave do they think the animals will be? Why?







Direk, Direk, GOOSE Have students find hidden ducks in the picture. How many can they count?

SKY HIGH SCRAMBLE

Have students unscramble the words. They can look for matching words in the word bank. Discuss how each word relates to birds.

CRÄWDÄD

second grade newspaper

River: Birds often follow the rivers to find food and water and also to use the rivers like a roadmap.

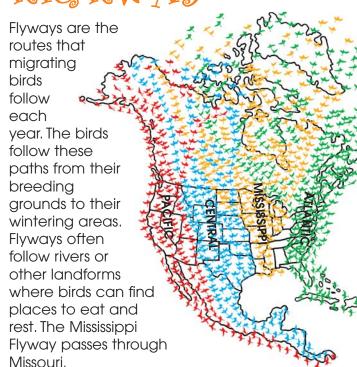
South: Migration to most folks means that the birds are "going south." That doesn't always mean that they head for the tropics. Some birds don't migrate any farther south than Missouri, and some birds don't migrate at all.

Migrate: Some birds move from one region to another with the change in seasons.

Navigate: Birds make their way or follow their course when they migrate in the fall.

FLYWAY





APPLICATION

Bonus activities for school or home Take a trip to a wetland area to see birds that may be migrating through your area. Watch your hummingbird feeder in the fall. You may see other species of humming-

birds migrating through and stopping to eat.

Some of the waterfowl following these paths fly in a characteristic "V" formation. The "V" formation is a wonderful way to make the flight easier on the birds. The lead bird helps reduce air resistance for those birds flying behind. From time to time they switch places, relieving the lead bird.

To view a colored version of this map, go to http://mdc4.mdc.mo.gov/Documents/180.pdf.

Children's



A Tree is Nice, by Janice May Udry The Giving Tree, by Shel Silverstein Squirrels, by Brian Wildsmith Why Do Leaves Change Color, by Betsy Maestro Freddy Fox Squirrel, by R.W. Eschmeyer Stella Luna, by Jannell Cannon Magic School Bus, Going Batty, from Scholastic Every Autumn Comes the Bear, by Jim Arnosky

Conservation

Sow the seeds of conservation this school year with a Conservation Seeds learning package. Conservation Seeds, an early childhood program for pre-school through grade 2 teachers, is a conservation education program that includes a 336-page teacher activity book, as well as seasonal posters and animal and habitat cards.

To order a copy of the package, write to: **Publications Staff, Missouri Department of** Conservation, P.O. Box 180, Jefferson City, MO 65102-0180 or e-mail your request to pubstaff@mdc.mo.gov